



STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

Ref: CED/TFL/12/2538

Dated: 29-12-2022

Date of Test: 04-01-2023

To,

Resident Engineer
NESPAK
Construction of Underpass at Samanabad Morr.

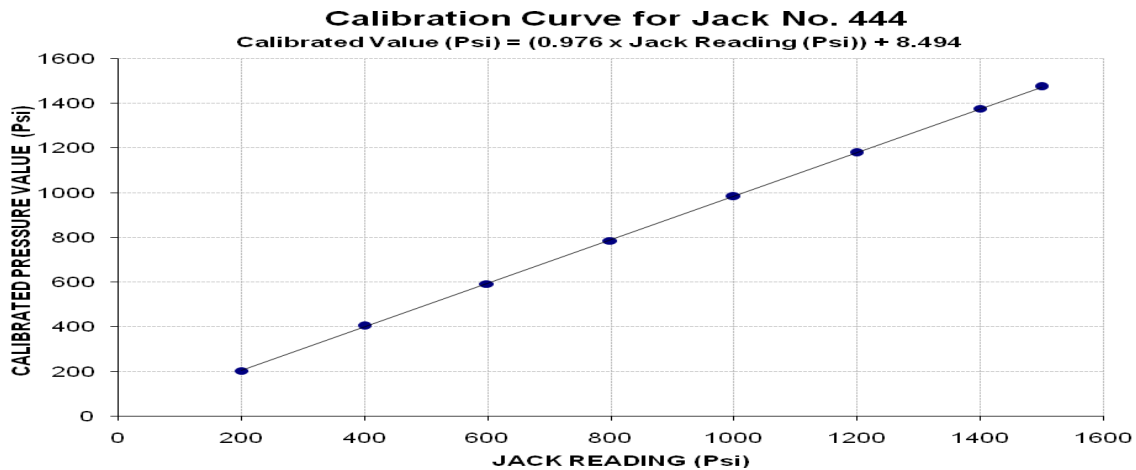
Subject: - CALIBRATION OF HYDRAULIC JACK WITH PRESSURE GAUGE
(MARK: TFL/12/2538) (Page # 1/1)

Reference to your Letter No. 4403/03/AZ/Lab/Calibration-Jack-002, Dated: 28/12/2022 on the subject cited above. One Hydraulic Jack No. NIZAMI - 444 with Pressure Gauge No. EN 837-1 as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 5800 (Psi)
Calibrated Range : Zero - 1500 (Psi)

Pressure Gauge Reading (Psi)	200	400	600	800	1000	1200	1400	1500
Calibrated Load (kg)	24800	49250	72250	95800	119800	143800	167800	179800
Calibrated Pressure (Psi)	203	404	593	786	983	1179	1376	1475

The Ram Area for Calibration = 268.8 in²



I/C Testing Laboratories
UET Lahore, Pakistan.

Note:

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

Ref: CED/TFL/12/2547

Dated: 30-12-2022

Date of Test: 04-01-2023

To,

Resident Engineer
NESPAK

Construction of Road Connecting Sub-Division Wazir to Banu Circular Road
Banu including Bridges along with Approaches.

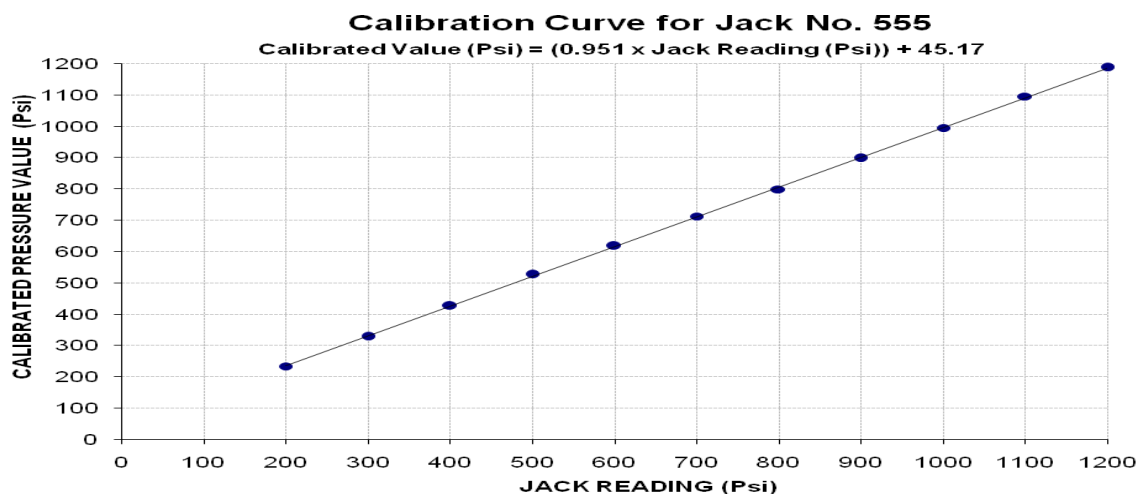
Subject: - **CALIBRATION OF HYDRAULIC JACK WITH PRESSURE GAUGE**
(MARK: TFL/12/2547) (Page # 1/3)

Reference to your Letter No. 4274/021/SA/196, Dated: 09/12/2022 on the subject cited above. One Hydraulic Jack No. 555 with Pressure Gauge No. EN 837-1 as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 6000 (Psi)
Calibrated Range : Zero - 1200 (Psi)

Jack Reading (Psi)	200	300	400	500	600	700	800	900	1000	1100	1200
Calibrated Load (kg)	33400	46800	60800	75000	88000	101400	113800	128000	141800	156000	169200
Calibrated Pressure (Psi)	235	329	427	527	618	712	799	899	996	1095	1188

The Ram Area for Calibration = 397.40 in²



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Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

Ref: CED/TFL/12/2547

Dated: 30-12-2022

Date of Test: 04-01-2023

To,

Resident Engineer
NESPAK

Construction of Road Connecting Sub-Division Wazir to Banu Circular Road
Banu including Bridges along with Approaches.

Subject: - **CALIBRATION OF PRESSURE GAUGE (MARK: TFL/05/1470)** (Page # 2/3)

Reference to your Letter No. 4274/021/SA/196, Dated: 09/12/2022 on the subject cited above. One Pressure Gauge No. EN 837-1 (KI 1.6) as received by us has been calibrated. The results are tabulated as under:

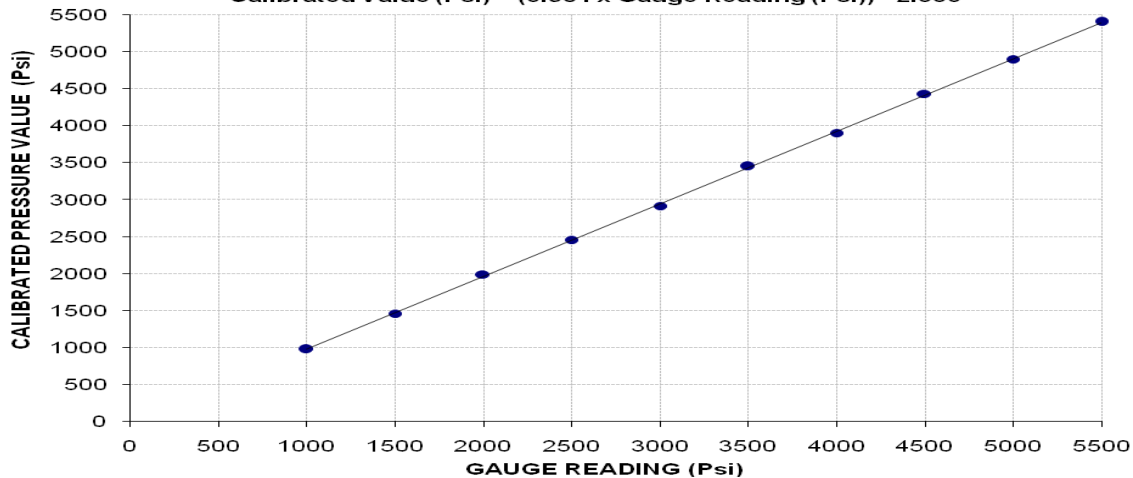
Total Range : Zero - 15000 (Psi)
Calibrated Range : Zero - 5500 (Psi)

Pressure Gauge Reading (Psi)	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500
Calibrated Load (kg)	13600	20300	27700	34200	40600	48000	54300	61700	68200	75200
Calibrated Pressure (Psi)	977	1458	1990	2457	2916	3448	3901	4432	4899	5402

The Ram Area for Calibration = 198 cm²

Calibration Curve for Pressure Gauge EN 837-1 (KI 1.6)

Calibrated Value (Psi) = (0.981 × Gauge Reading (Psi)) - 2.350



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Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
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Ref: CED/TFL/12/2547

Dated: 30-12-2022

Date of Test: 04-01-2023

To,

Resident Engineer
NESPAK

Construction of Road Connecting Sub-Division Wazir to Banu Circular Road
Banu including Bridges along with Approaches.

Subject: - CALIBRATION OF DIAL GAUGES (MARK: TFL/05/1470) (Page # 3/3)

Reference to your Letter No. 4274/021/SA/196, Dated: 09/12/2022 on the subject cited above. Four Dial Gauges as received by us have been calibrated on standard calibration device. The results are tabulated as under.

Total Range : Zero - 50 (mm)
Calibrated Range : Zero - 50 (mm)

Standard Reading	Dial Gauge Readings			
	Dial Gauge No. I (14J230037)	Dial Gauge No. II (13I020264)	Dial Gauge No. III (14J23003)	Dial Gauge No. IV (S17649)
400	394	392	392	373
800	797	792	792	774
1200	1198	1192	1193	1173
1600	1601	1592	1594	1473
2000	2002	1992	1998	1973
2400	2404	2393	2397	2373
2800	2807	2793	2798	2773
3200	3210	3194	3199	3170
3600	3611	3593	3600	3573
4000	4012	3993	4001	3968
4400	4413	4394	4402	4372
4800	4814	4793	4802	4770
5000	5014	4993	5004	4970

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,

Resident Engineer
 ESAC Sector U, DHA Multan
 Award of Civil Infrastructure Works Sector U (Part-2) including MC between Sector L & P
 and Services Road along MC Sector T & X (Package 3) on Deferred Payment DHA, Multan

Reference # CED/TFL **2550** (Dr. Ali Ahmed)
 Reference of the request letter # ESAC/CW/Sec U Pt-2/177

Dated: 02-01-2023
 Dated: 10-11-2022

Tension Test Report (Page -1/1)

Date of Test 04-01-2023
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	4.231	10	1.258	1.27	1.244	39400	54800	68400	69830	95200	97200	1.60	20.0	FF Steel
2	4.238	10	1.259	1.27	1.246	39400	54800	68400	69720	95200	97000	1.70	21.3	
3	5.273	11	1.405	1.56	1.550	50400	71800	71300	71670	101500	102100	1.30	16.3	
4	5.268	11	1.404	1.56	1.548	50400	71800	71300	71740	101500	102200	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four samples for tensile and two samples for bend test														
Bend Test														
#10 Bar Bend Test Through 180° is Satisfactory														
#11 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratories
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,

M/S Pakistan Wire Industries (Pvt) Limited
Karachi

Reference # CED/TFL **2557** (Dr. Ali Ahmed)
Reference of the request letter # WRD/001/LAB001

Dated: 02-01-2023

Dated: 02-01-2023

Tension Test Report (Page – 1/1)

Date of Test 04-01-2023

Description Steel Wire Rope Fiber Core Tensile Test

Sr. No.	Nominal Diameter	Measured weight	Breaking Load	Remarks / Coil No.
	(mm)	(kg/m)	(kg)	
1	12	0.36	7000	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
Only one sample for Test				

I/C Testing Laboratoires
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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Manager Civil
 Nishat Mills Limited
 Dyeing & Finishing Plant, Lahore

Reference # CED/TFL **2558** (Dr. M Rizwan Riaz)
 Reference of the request letter # NDF/SST/003

Dated: 02-01-2023
 Dated: 29-12-2022

Tension Test Report (Page -1/1)

Date of Test 04-01-2023
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (mm)		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.415	10	10.01	0.12	0.122	3900	5400	71650	70490	99207	97600	1.50	18.8	Sheikhoo Steel
2	0.414	10	10.00	0.12	0.122	3800	5400	69812	68750	99207	97700	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,

Team Leader
 G3 Engineering Consultant (Pvt) Ltd
 "Construction of Building GC Women University Sialkot on Acquired of Land."

Reference # CED/TFL **2559** (Dr. M Rizwan Riaz)
 Reference of the request letter # G3/0271/

Dated: 02-01-2023
 Dated: 06-12-2022

Tension Test Report (Page -1/1)

Date of Test 04-01-2023
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.389	3	0.381	0.11	0.114	4200	5400	84200	80990	108200	104200	1.20	15.0	FF Steel
2	0.387	3	0.381	0.11	0.114	4100	5300	82200	79410	106200	102700	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Assistant Director
 Defence Housing Authority
 Gujranwala
 “Construction of Villas (Block A & D)”

Reference # CED/TFL **2560** (Dr. M Rizwan Riaz)
 Reference of the request letter # 111/3/AD Bldgs/Gen/31

Dated: 02-01-2023
 Dated: 27-12-2022

Tension Test Report (Page -1/1)

Date of Test 04-01-2023
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.378	3	0.376	0.11	0.111	3500	5400	70200	69380	108200	107100	1.30	16.3	Siraj Steel
2	0.378	3	0.376	0.11	0.111	3500	5400	70200	69360	108200	107100	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
Material Engineer
Banu Mukhtar Contracting (Pvt) Ltd.
Burj-1 by AJWA Builders

Reference # CED/TFL **2563** (Dr. Ali Ahmed)
Reference of the request letter # DOC-BMC/AJWA/039

Dated: 03-01-2023
Dated: 02-01-2023

Tension Test Report (Page -1/1)

Date of Test 04-01-2023
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	4.357	10	1.277	1.27	1.281	43000	58200	74700	74010	101100	100200	1.50	18.8	
2	4.413	10	1.285	1.27	1.297	43800	58000	76100	74420	100700	98600	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#10 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Project Director
 New Metro City Housing Scheme
 Sara-I-Alamgir

Reference # CED/TFL **2564** (Dr. Ali Ahmed)
 Reference of the request letter # BSM/NMC/QA/108

Dated: 03-01-2023
 Dated: 31-12-2022

Tension Test Report (Page -1/1)

Date of Test 04-01-2023
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.380	3/8	0.377	0.11	0.112	3600	4900	72200	71030	98200	96700	1.40	17.5	FF Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,

Resident Engineer
ZEERUK – LOYA – MIHA JV
Development of Islamabad Expressway from Korang to PWD Interchange (km 1+300 to 3+200) including Railway Bridges. (MWI)

Reference # CED/TFL **2565** (Dr. Ali Ahmed)
Reference of the request letter # ZI/RE/FWO-RB/22/92

Dated: 03-01-2023
Dated: 14-11-2022

Tension Test Report (Page -1/2)

Date of Test 04-01-2023
Gauge length 640 mm
Description Steel Strand Tensile Test as per ASTM A-416-94a

Sr. No.	Nominal Diameter	Nominal Weight	Measured weight	Yield strength clause (6.3)		Breaking strength clause (6.2)		Young's Modulus of Elasticity "E"	% Elongation	Remarks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)			
1	12.70 (1/2")	775.0	779.0	18300	179.52	19700	193.26	199	>3.50	xx
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only one sample for Test										

Note:

1. Modulus of Elasticity is based on nominal steel area of the steel strand vide clause 13.3 of ASTM – A416a
2. Load versus percentage strain graphs are attached

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,

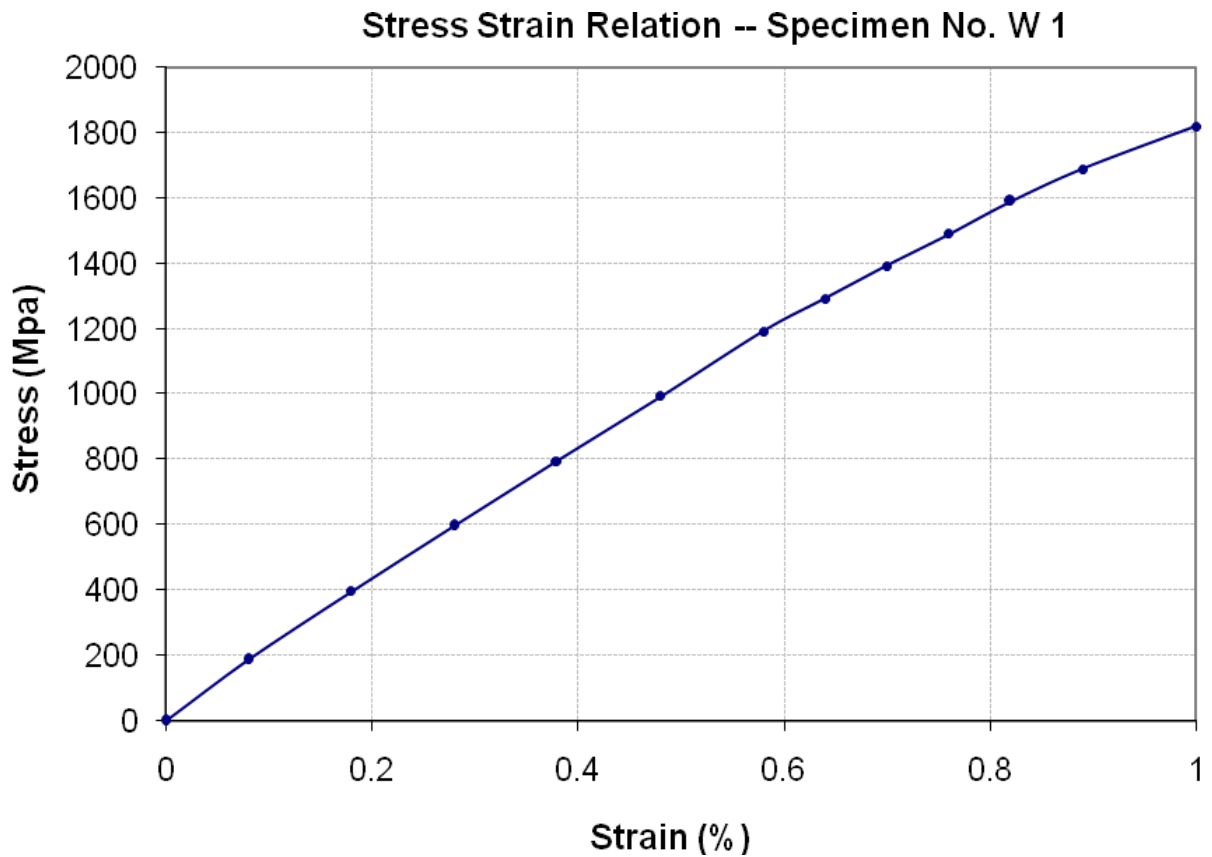
Resident Engineer
ZEERUK – LOYA – MIHA JV
Development of Islamabad Expressway from Korang to PWD Interchange (km 1+300 to 3+200) including Railway Bridges.

Reference # CED/TFL **2565** (Dr. Ali Ahmed)
Reference of the request letter # ZI/RE/FWO-RB/22/92

Dated: 03-01-2023

Dated: 14-11-2022

Graph (Page – 2/2)



I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Chief Technical Officer
 Sheekhoo Sugar Mills (Steel Division)
 Anwar Abad Kot Addu, Muzaffargarh

Reference # CED/TFL **2567** (Dr. M Yousaf)
 Reference of the request letter #Nil

Dated: 04-01-2023
 Dated: 02-01-2023

Tension Test Report (Page -1/2)

Date of Test 04-01-2023
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.370	3	0.372	0.11	0.109	3590	4940	72000	72830	99000	100300	1.60	20.0	809N
2	0.365	3	0.369	0.11	0.107	3520	4760	70600	72410	95400	98000	1.50	18.8	844N
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only Two samples for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

- 1- You can See your reports On Internet in the following web site
http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
- 2- The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
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To,
 Chief Technical Officer
 Sheekhoo Sugar Mills (Steel Division)
 Anwar Abad Kot Addu, Muzaffargarh

Reference # CED/TFL **2567** (Dr. M Yousaf)
 Reference of the request letter #Nil

Dated: 04-01-2023
 Dated: 02-01-2023

Tension Test Report (Page -2/2)

Date of Test 04-01-2023
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (mm)		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.414	10	10.00	0.12	0.122	4080	5420	74956	73840	99574	98100	1.20	15.0	469N
2	0.416	10	10.03	0.12	0.122	4030	5420	74038	72600	99574	97700	1.50	18.8	497N
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Note: only Two samples for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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